

**To:** Black, Ned[Black.Ned@epa.gov]  
**From:** Ned Black  
**Sent:** Thur 8/13/2015 5:30:16 AM  
**Subject:** Re: Your data summary (I think)

Better grammar for my last paragraph, if still time.

An even more speculative interpretation of these data might suggest that by today, August 12, 2015, the pulse from Gold King has reached Lake Powell. This speculation derives from the observation that the Gold King pulse appears to have reach Shiprock by August 8, 2015, at least 3 days after the initial release. If the transport rate of the pulse from Shiprock to Lake Powell was at all similar to the transport rate from Gold King to Shiprock, it seems likely the leading edge of the increasingly attenuated plume has had sufficient time to reach Lake Powell.

On Wed, Aug 12, 2015 at 10:15 PM, Ned Black <[nedz.black@gmail.com](mailto:nedz.black@gmail.com)> wrote:

----- Forwarded message -----

**From:** Ned Black <[nedz.black@gmail.com](mailto:nedz.black@gmail.com)>  
**Date:** Wed, Aug 12, 2015 at 10:14 PM  
**Subject:** Re: Your data summary (I think)  
**To:** "Hiatt, Gerald" <[Hiatt.Gerald@epa.gov](mailto:Hiatt.Gerald@epa.gov)>

Let me know.

On Wed, Aug 12, 2015 at 9:17 PM, Ned Black <[nedz.black@gmail.com](mailto:nedz.black@gmail.com)> wrote:

Got figure and data summary format.

On Wed, Aug 12, 2015 at 9:11 PM, Hiatt, Gerald <[Hiatt.Gerald@epa.gov](mailto:Hiatt.Gerald@epa.gov)> wrote:

1. Please text me to confirm receipt
2. I have cc'd your EPA email for record-keeping purposes
3. Preferred format should be attached (please inform me if not)

**From:** McKean, Deborah  
**Sent:** Wednesday, August 12, 2015 5:15 PM  
**To:** Black, Ned; Delgado, Eric; Nattis, Randy; Wise, Robert  
**Cc:** Loesel, Matthew; McComb, Martin; Rauscher, Jon; Hiatt, Gerald; Guria, Peter; Allen, HarryL  
**Subject:** RE: Please find attached the validated data tables for Region 6 for Surface Water Samples taken Aug 6-8, 2015

Please see the attached data summary report. Can you please add to this in a form similar to that provide by Regions 6 and 8?

**From:** Black, Ned

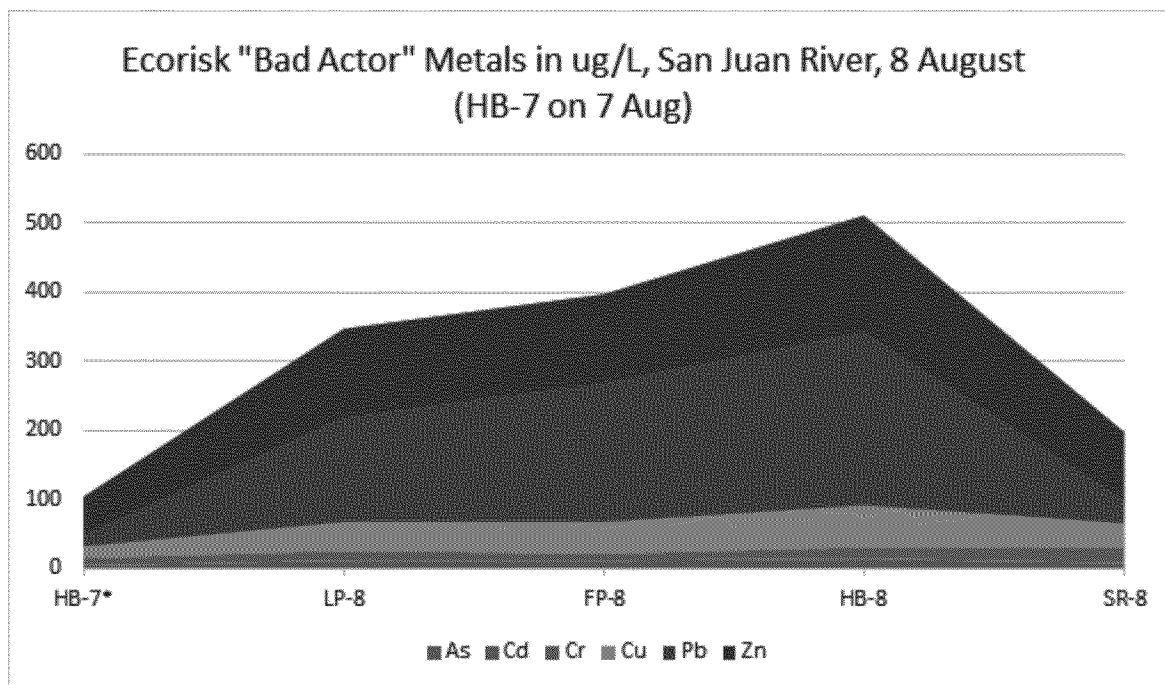
**Sent:** Wednesday, August 12, 2015 3:48 PM

**To:** Delgado, Eric; McKean, Deborah; Nattis, Randy; Wise, Robert

**Cc:** Loesel, Matthew; McComb, Martin; Rauscher, Jon; Hiatt, Gerald; Guria, Peter; Allen, HarryL

**Subject:** RE: Please find attached the validated data tables for Region 6 for Surface Water Samples taken Aug 6-8, 2015

Gerry Hiatt and I have been looking at the data from the San Juan River sites sampled on 7 & 8 August. It looks like the pulse had not reached Hogback by August 7. On August 8, it appears the pulse was in the San Juan River, spread between Farmington and Shiprock with the peak metals concentrations at Hogback. Gerry has some further thoughts and observations. Regardless, this is has to be viewed as a very preliminary observation based almost entirely on data from 4 sites on one day. We can be much more definitive after we see data from other days.



ned black, ph.d.

us epa r9

regional cercla ecologist

415-972-3055

Please be advised I currently have limited access to email when I am not in the office (e.g., on travel), therefore please be patient with any communication delays.

**From:** Delgado, Eric

**Sent:** Wednesday, August 12, 2015 2:14 PM

**To:** McKean, Deborah; Nattis, Randy; Wise, Robert; Black, Ned

**Cc:** Loesel, Matthew; McComb, Martin; Rauscher, Jon  
**Subject:** Re: Please find attached the validated data tables for Region 6 for Surface Water Samples taken Aug 6-8, 2015

Ned?

Sent from my iPhone

On Aug 12, 2015, at 15:48, McKean, Deborah <[mckean.deborah@epa.gov](mailto:mckean.deborah@epa.gov)> wrote:

How is the region 9 data interpretation coming?

**From:** Loesel, Matthew  
**Sent:** Wednesday, August 12, 2015 2:36 PM  
**To:** McKean, Deborah; McComb, Martin  
**Cc:** Delgado, Eric; Rauscher, Jon  
**Subject:** Please find attached the validated data tables for Region 6 for Surface Water Samples taken Aug 6-8, 2015

Matt Loesel

R6 Planning Section Chief

US EPA – Region 6

817-271-4586